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Application No. 10/692,545  
Amendment dated December 12, 2005

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-49 (cancelled).

50. (currently amended) A surgical instrument for use in spinal surgery, said surgical instrument comprising:

an elongated handle having opposed ends and a rounded gripping portion therebetween, said handle having a midpoint half way between said opposed ends;

a shaft having a proximal end, a distal end, and a longitudinal central axis between said proximal and distal ends, said proximal end of said shaft being attached to said handle, the longitudinal central axis of said shaft extending through said gripping portion of said handle and being offset from the midpoint of said handle; and

an arm extending radially from said shaft proximate said distal end of said shaft, said arm having terminating in a surface adapted to directly contact and displace cancellous bone in response to moving said shaft, said arm having a longitudinal axis extending through said shaft and through said surface, said surface being adapted to make a path through the cancellous bone in a plane perpendicular to the longitudinal central axis of said shaft.

51. (previously presented) The surgical instrument of claim 50, further comprising a cylindrical portion having a height parallel to the longitudinal central axis of said shaft and a diameter transverse to the central longitudinal axis of said shaft, the diameter of said cylindrical portion being greater than the height of said cylindrical portion, said cylindrical portion forming a portion of said handle.
52. (previously presented) The surgical instrument of claim 51, wherein said cylindrical portion is attached to said proximal end of said shaft.

53. (previously presented) The surgical instrument of claim 51, wherein said gripping portion of said handle has a length and a width, the diameter of said cylindrical portion being greater than the width of said gripping portion of said handle.
54. (previously presented) The surgical instrument of claim 50, wherein said surface is a cutting blade.
55. (previously presented) The surgical instrument of claim 50, wherein said surface forms a sharp tip.
56. (previously presented) The surgical instrument of claim 50, wherein said gripping portion of said handle and said shaft each have a length, the length of said shaft being greater than the length of said gripping portion of said handle.
57. (previously presented) The surgical instrument of claim 50, wherein said arm has a cutting surface adapted to directly contact and cut cancellous bone in response to rotating said shaft, said cutting surface being adapted to make a radial cut through the cancellous bone in a plane perpendicular to the longitudinal central axis of said shaft.
58. (currently amended) An surgical instrument for use in spinal surgery, said surgical instrument comprising:
  - an elongated handle having opposed ends and a rounded gripping portion therebetween;
  - a shaft having a proximal end, a distal end, and a longitudinal central axis between said proximal and distal ends, said proximal end of said shaft being attached to said handle;
  - an arm extending radially from said shaft proximate said distal end of said shaft, said arm ~~having~~ terminating in a surface adapted to directly contact and displace cancellous bone in response to moving said shaft, said arm having a longitudinal axis extending through said shaft and through said surface, said surface being adapted to make a path through the cancellous bone in a plane perpendicular to the longitudinal central axis of said shaft and

a cylindrical portion between the proximal end of said shaft and at least a portion of said handle, said cylindrical portion having a height parallel to the longitudinal central axis of said shaft and a diameter transverse to the longitudinal central longitudinal axis of said shaft, the diameter of said cylindrical portion being greater than the height of said cylindrical portion, the longitudinal central axis of said shaft passing through said cylindrical portion forming and a portion of said handle.

59. (previously presented) The surgical instrument of claim 58, wherein said cylindrical portion is attached to said proximal end of said shaft.
60. (previously presented) The surgical instrument of claim 58, wherein said gripping portion of said handle has a length and a width, the diameter of said cylindrical portion being greater than the width of said gripping portion of said handle.
61. (previously presented) The surgical instrument of claim 58, wherein said surface is a cutting blade.
62. (previously presented) The surgical instrument of claim 58, wherein said surface forms a sharp tip.
63. (previously presented) The surgical instrument of claim 58, wherein said gripping portion of said handle and said shaft each have a length, the length of said shaft being greater than the length of said gripping portion of said handle.
64. (previously presented) The surgical instrument of claim 58, wherein said arm has a cutting surface adapted to directly contact and cut cancellous bone in response to rotating said shaft, said cutting surface being adapted to make a radial cut through the cancellous bone in a plane perpendicular to the longitudinal central axis of said shaft.
65. (currently amended) A system~~An system~~ for use in spinal surgery, said system comprising:

a cannula having a proximal end, a distal end configured for engagement with at least one vertebral body of a human spine, a length therebetween, and a passage connecting said proximal and distal ends; and

a surgical instrument comprising:

a shaft having a proximal end, a distal end, and a longitudinal central axis between said proximal and distal ends, said instrument being adapted to be deployed into position to displace cancellous bone by movement of said shaft within and along said passage of said cannula;

an arm extending radially from said shaft proximate said distal end of said shaft, said arm ~~terminating in~~ having a surface adapted to directly contact and displace cancellous bone in response to moving said shaft within said passage of said cannula, said surface having a maximum height from said shaft in a plane perpendicular to the longitudinal central axis of said shaft, said arm having a longitudinal axis extending through said shaft and through said maximum height of said surface, said surface being adapted to make a path through the cancellous bone in a plane perpendicular to the longitudinal central axis of said shaft; and

a depth stop on said shaft adapted to limit over penetration of said shaft through said cannula.

66. (previously presented) The system of claim 65, wherein said depth stop comprises a shoulder circumferentially surrounding said shaft.
67. (previously presented) The system of claim 66, wherein said depth stop has a diameter greater than a diameter of said passage of said cannula.
68. (previously presented) The system of claim 65, wherein said depth stop includes a lower surface adapted to abut a proximal end of said cannula to limit movement of said bone instrument through said cannula.
69. (previously presented) The system of claim 65, wherein said surface includes a tip spaced apart from the longitudinal central axis of said shaft and said depth stop has an outer perimeter in a plane transverse to the longitudinal central axis of said shaft, at least a portion of the outer perimeter of said depth stop being closer to the longitudinal central axis of said shaft than said tip.

70. (previously presented) The system of claim 65, wherein said surgical instrument further comprises an elongated handle having opposed ends and a rounded gripping portion therebetween, said handle having a midpoint half way between said opposed ends
71. (currently amended) The ~~system~~surgical instrument of claim 70, further comprising a cylindrical portion having a height parallel to the longitudinal central axis of said shaft and a diameter transverse to the central longitudinal axis of said shaft, the diameter of said cylindrical portion being greater than the height of said cylindrical portion, said cylindrical portion forming a portion of said handle.
72. (currently amended) The ~~system~~surgical instrument of claim 71, wherein said cylindrical portion is attached to said proximal end of said shaft.
73. (currently amended) The ~~system~~surgical instrument of claim 70, wherein said gripping portion of said handle has a length and a width, the diameter of said cylindrical portion being greater than the width of said gripping portion of said handle.
74. (currently amended) The ~~system~~surgical instrument of claim 65, wherein said surface is a cutting blade.
75. (currently amended) The ~~system~~surgical instrument of claim 65, wherein said surface forms a sharp tip.
76. (currently amended) The ~~system of claim 70~~surgical instrument of claim 65, wherein said gripping portion of said handle and said shaft each have a length, the length of said shaft being greater than the length of said gripping portion of said handle.
77. (currently amended) The ~~system~~surgical instrument of claim 65, wherein said arm has a cutting surface adapted to directly contact and cut cancellous bone in response to rotating said shaft, said cutting surface being adapted to make a radial cut through the cancellous bone in a plane perpendicular to the longitudinal central axis of said shaft.

78. (new) The system of claim 65, wherein said arm has a maximum width transverse to the longitudinal axis of said arm, said surface having a maximum width parallel to the longitudinal central axis of said shaft, the maximum width of said surface being no greater than the maximum width of said arm.
79. (new) The system of claim 65, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface extending no more distally than said distal end of said shaft.
80. (new) The system of claim 65, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface being co-planar with said distal end of said shaft in a plane perpendicular to the central longitudinal axis of said shaft.
81. (new) The system of claim 65, wherein said surface has a straight cutting edge.
82. (new) The system of claim 65, wherein said surface is multi-faceted.
83. (new) The surgical instrument of claim 50, wherein said arm has a maximum width transverse to the longitudinal axis of said arm, said surface having a maximum width parallel to the longitudinal central axis of said shaft, the maximum width of said surface being no greater than the maximum width of said arm.
84. (new) The surgical instrument of claim 50, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface extending no more distally than said distal end of said shaft.
85. (new) The surgical instrument of claim 50, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface being co-planar with said distal end of said shaft in a plane perpendicular to the central longitudinal axis of said shaft.
86. (new) The surgical instrument of claim 50, wherein said surface has a straight cutting edge.
87. (new) The surgical instrument of claim 50, wherein said surface is multi-faceted.

88. (new) The surgical instrument of claim 58, wherein said arm has a maximum width transverse to the longitudinal axis of said arm, said surface having a maximum width parallel to the longitudinal central axis of said shaft, the maximum width of said surface being no greater than the maximum width of said arm.
89. (new) The surgical instrument of claim 58, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface extending no more distally than said distal end of said shaft.
90. (new) The surgical instrument of claim 58, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface being co-planar with said distal end of said shaft in a plane perpendicular to the central longitudinal axis of said shaft.
91. (new) The surgical instrument of claim 58, wherein said surface has a straight cutting edge.
92. (new) The surgical instrument of claim 58, wherein said surface is multi-faceted.
93. (new) A surgical instrument for use in spinal surgery, said surgical instrument comprising:
  - an elongated handle having first and second opposed ends, a length therebetween, the length being the maximum dimension of said handle, and a rounded gripping portion along the length; and
  - an elongated member having a proximal end, a distal end, and a central longitudinal axis, said proximal end of said elongated member being attached to said handle, the central longitudinal axis of said elongated member extending through said distal end and said handle between said first and second opposed ends, said elongated member having a bone-contacting surface having a perimeter with a first linear edge portion and a second linear edge portion opposite said first linear edge portion, said first and second linear edge portions being in a plane, at least one of said linear edge portions being adapted to

contact and displace bone in response to rotating said elongated member about its central longitudinal axis;

each of said first and second opposed ends of said handle having a point most-distant from the central longitudinal axis of said elongated member, the length of said handle being in a longitudinal plane with the central longitudinal axis of said elongated member, said most-distant points of said first and second opposed ends of said handle being in respective first and second planes that are parallel to one another and perpendicular to the longitudinal plane, said bone-contacting surface of said elongated member being between the first and second planes of said first and second opposed ends of said handle.

- 94. (new) The instrument of claim 93, wherein said bone-contacting surface is adapted to cut bone.
- 95. (new) The instrument of claim 93, wherein said bone-contacting surface is adapted to make a radial cut through the bone in a plane perpendicular to the central longitudinal axis of said elongated member.
- 96. (new) The instrument of claim 93, wherein the plane containing said first and said second linear edge portions intersects the central longitudinal axis of said elongated member.
- 97. (new) The instrument of claim 93, wherein said first and said second linear edge portions are at an angle relative to one another.
- 98. (new) The instrument of claim 93, wherein the length of said handle is perpendicular to the central longitudinal axis of said elongated member.
- 99. (new) An apparatus for use in spinal surgery for displacing bone, said apparatus comprising:

a tubular member having a proximal end, a distal end opposite said proximal end, a mid-longitudinal axis passing through said proximal and distal ends, a length from said proximal end to said distal end, a sidewall connecting said proximal and distal ends, and a hollow interior; and



a bone displacement device including a handle having opposed ends and a rounded gripping portion therebetween, an elongated member attached to said handle, said elongated member having a central longitudinal axis, and a bone displacement portion having a first bone-contacting edge and a second bone-contacting edge opposite said first bone-contacting edge, said first and second bone-contacting edges being at an angle relative to one another and at an angle to the central longitudinal axis of said elongated member, said bone displacement device having a length along said elongated portion that is greater than a majority of the length of said tubular member, said bone displacement portion having a height from the central longitudinal axis of said elongated member that permits at least a portion of said bone displacement portion to extend radially beyond the perimeter of said sidewall of said tubular member in a plane transverse to the mid-longitudinal axis of said tubular member.

- 100. (new) The apparatus of claim 99, wherein said bone displacement portion is adapted to cut bone.
- 101. (new) The apparatus of claim 99, wherein said bone displacement portion is adapted to make a radial cut through the bone in a plane perpendicular to the central longitudinal axis of said elongated member.
- 102. (new) The apparatus of claim 99, wherein said handle has a length which is the maximum dimension of said handle, the length of said handle being perpendicular to the central longitudinal axis of said elongated member.
- 103. (new) The apparatus of claim 99, wherein at least one of said edges is sufficiently sharp to make a radial cut into the bone.
- 104. (new) The apparatus of claim 99, wherein said sidewall has an opening in communication with said interior of said tubular member.